



CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 11, 2004.

E. R. Watt  
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/757,773  
Applicant : Robert B. Smalley et al.  
Title : FIREARM CARTRIDGE AND CASE-LESS CHAMBER  
Filed : January 15, 2004  
Docket No. : 3210.2.4  
Customer No. : 21552

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Transmitted herewith is an Information Disclosure Statement disclosing information which has come to the attention of applicants and/or their attorneys and is being submitted so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56. In accordance with 37 C.F.R. § 1.97(b), the enclosed Statement is being filed within three (3) months of the filing date of the above-identified application or before the mailing date of a first Action on the merits.

Neither applicants nor their attorneys make any representation that any information disclosed herein may be "prior art" within the meaning of that term under 35 U.S.C. § 102 or § 103. Moreover, pursuant to 37 C.F.R. § 1.97, the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made or as an admission that the

information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

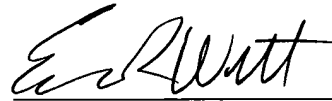
In accordance with 37 C.F.R. § 1.98, transmitted herewith are:

1. A completed copy of Form PTO/SB/08A "Information Disclosure Statement by Applicant" listing the patents, publications and other information being submitted for consideration; and
2. A legible copy of each patent, publication and other item of information in written form listed on the enclosed Form PTO/SB/08A, except for copies of U.S. patents and published U.S. patent applications which are not required for applications filed after June 30, 2003.

As this application was filed after June 30, 2003, copies of the U.S. patents and published U.S. patent applications listed on the enclosed Form PTO/SB/08A are not required and, therefore, not included herewith.

The patents, publications and other items of information listed as F1-F6, and O1-O32 on Form PTO/SB/08A were previously cited by and/or submitted to the Patent and Trademark Office in Applicants' prior application Serial No. 10/307,821 (filed December 2, 2002 for "FIREAM CARTRIDGE AND CASELESS CHAMBER"), which is being relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), therefore, copies of these patents, publications and other items of information are not being submitted with this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "E. R. Witt", written over a horizontal line.

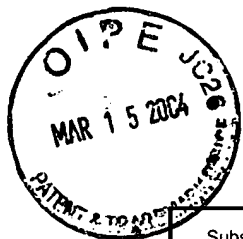
Evan R. Witt

Reg. No. 32,512

Attorney for Applicants

Date: March 11, 2004

MADSON & METCALF  
Gateway Tower West  
15 West South Temple, Suite 900  
Salt Lake City, Utah 84101  
Telephone: 801/537-1700



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/757,773
Filing Date	January 15, 2004
First Named Inventor	Robert B. Smalley
Group Art Unit	
Examiner Name	
Attorney Docket Number	3210.2.4

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	U1	US-214,680-B1	04/1879	Merriam	
	U2	US-1,316,786-B1	09/23/1919	Gerle et al.	
	U3	US-2,926,612-B1	03/01/1960	Olin	
	U4	US-3,048,105-B1	08/07/1962	Schlatter	
	U5	US-3,209,691-B1	10/05/1965	Herter	
	U6	US-3,527,137-B1	09/08/1970	Scanlon	
	U7	US- 3,696,749-B1	10/10/1972	Scanlon	
	U8	US-3,832,951-B1	09/03/1974	Katz et al.	
	U9	US-5,463,956-B1	11/07/1995	Harting	
	U10	US-5,481,978-B1	01/1996	Muller et al.	
	U11	US-5,767,221-B1	06/16/1998	Poulter et al.	
	U12	US-5,834,673-B1	11/1998	Gustavsson et al.	
	U13	US-5,970,879-B1	10/1999	Jamison	
	U14	US-6,293,203-B1	09/25/2001	Alexander et al.	
	U15	US-6,523,475-B1	02/2003	Smalley, Jr. et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	F1	14,678	09/1890	Great Britain		
	F2	11,747	05/1896	Great Britain		
	F3	2,557	12/1903	Great Britain		
	F4	750,320	01/1945	Germany		
	F5	2,154,713	09/11/1985	Great Britain		
	F6	2,164,426	03/19/1986	Great Britain		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and selection option 2.

\* Did not receive

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/757,773
		Filing Date	January 15, 2004
		First Named Inventor	Robert B. Smalley
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	3210.2.4
Sheet	2	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	O1	Frank C. Barnes; CARTRIDGES OF THE WORLD 9th Edition, Revised and Expanded; pp. 1-3; pp. 157 and 206	
	O2	Jon R. Sundra; REMINGTON'S .300 ULTRA MAG; Petersen's Rifle Shooter, February 1999; pp. 44-47.	
	O3	Stanton L. Wormley, Jr.; WEATHERB; American Rifleman, October 1997; pp. 1-5.	
	O4	Roy L. Towers, Jr.; THE 6mm REMINGTON IMPROVED; Precision Shooting, September 1998; pp. 78-83.	
	O5	James Patric; SHOOTING THE 25 SOUPER IMPROVED; Precision Shooting, May 1998; pp. 35-42.	
	O6	Todd A. Kindler; THE 20 TNT A DYNAMITE VARMINT CARTRIDGE; Precision Shooting, April 1998; pp. 1-3.	
	O7	M.L. McPherson; SOMETIMES BIGGER IS BETTER: LAZZERONI ARMS; Precision Shooting, March 1998; pp. 7-15.	
	O8	M.L. McPherson; FIREFORMING, IT AIN'T ALL THAT SIMPLE; Precision Shooting, February 1998; pp.29-35.	
	O9	Bob Jourdan; AN ADVENTURE WITH THE .17 CALIBER; Precision Shooting, February 1998; pp. 41-50.	
	O10	Todd A. Kindler; 6 VARTAG TURBO; Precision Shooting, November 1997; pp. 82-84.	
	O11	Bob Greenleaf; BOB GREENLEAF ON VERY ACCURATE CARTRIDGES; Precision Shooting Special 5, Vol. 1 - 1997; pp. 24.	
	O12	Bob Jourdan; THE ACKLEY 6MM REM AND .22-250; Precision Shooting, June 1997; pp. 69-75.	
	O13	Mike Winkler; THE 6MM HLS; Precision Shooting, May 1997; pp. 21-21-32.	
	O14	Ron Jeter; TP (TURBULENCE POINT) WILDCAT CARTRIDGES FOR TOP PERFORMANCE THE QUEST FOR PERFECTION; Precision Shooting, May 1997; pp. 83-87.	
	O15	George Reynolds; SMALL CARTRIDGE STUFF; Precision Shooting Special 4, Vol. 1 - 1997; pp. 37.	
	O16	Dave Scott; IDENTIFYING THE WELL-BEHAVED RIFLE; Precision Shooting, Special 4, Vol. 1 - 1997; pp. 38-39.	
	O17	Bob Jourdan; MUSES ON CASE CAPACITY (AGAIN); Precision Shooting, Special 4, Vol. 1 - 1997; pp. 76-77.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and selection option 2.

\* Did not receive

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
		Application Number	10/757,773
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	January 15, 2004
		First Named Inventor	Robert B. Smalley
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	3210.2.4
(use as many sheets as necessary)			
Sheet	3	of	4

O18	Steve Hanson; MY TRIO OF 6MM VARMINT RIFLES, 6MM REMINGTON, 6MM ACKLEY IMPROVED, 6/284; Precision Shooting, November 1999; pp. 72-77.
O19	Jon R. Sundra; CUSTOM SHORT 7 MAG, A GUIDED TOUR THROUGH THE PROCESS OF PUTTING TOGETHER A PROJECT RIFLE THAT'S CUSTOMIZED JUST FOR YOU; Petersen's Rifle Shooter, August 2000; pp. 50-55.
O20	Scott E. Mayer; THE ALL-NEW HARD-HITTING, BELTLESS .376 STEYR CARTRIDGE OFFERS BALLISTICS APPROACHING THOSE OF THE .375 H & H MAG. IN A COMPACT PACKAGE; American Rifleman, March 2000; pp. 38-41.
O21	Ian Cheeseman; A 6.5 WILDCAT AND A SMALL PIECE OF WHITE CARD; Precision Shooting, January 1997; pp. 92-97.
O22	Roger Johnston and Pat Gamman; MORE ON THE LITTLE 6MM BR WITH 105/107 GRAIN BULLETS; Precision Shooting, January 1997; pp. 32-37.
O23	Todd A. Kindler; THE TWENTY IS BACK! AND HERE TO STAY; Precision Shooting, January 1997; pp. 12-16.
O24	Roy L. Towers, Jr.; BUILDING AND SHOOTING A 22-250 ACKLEY IMPROVED; Precision Shooting, February 1997; pp. 79-84.
O25	Randolph Constantine; CASE-FORMING MADE EASIER; Precision Shooting, February 2000; pp. 64-70.
O26	Bob Jourdan; THE .256 NEWTON; Precision Shooting, March 2000; pp. 78-87.
O27	M.L. McPherson; BRINGING THE SHORT, FAT CASE TO 1000 YARD COMPETITION; Precision Shooting, August 1999; pp. 26-28.
O28	Ben Peal; THE 6X33 JRP; Precision Shooting, May 1999; pp. 1-6.
O29	M.L. McPherson; THE CONSERVATION THEORY OF CASE DESIGN; Precision Shooting, January 1999; pp. 50-51.
O30	Gary Hardison; THE TALE OF GRUMPY AND THE 6MM-06; The Varmint Hunter Magazine, Issue #27, July 1998; pp. 223.
O31	Mark Harris; MY CUSTOM .280 ACKLEY; The varmint Hunter Magazine, Issue #27, July 1998; pp. 211-212.
O32	Wayne van Zwoil; WORTHWHILE WILDCATS; Petersen's Rifle Shooter, April 1999; pp. 42-46.
O33	M.L. McPherson, et al., "SMC: Introducing A New Era", The Varmint Hunter Magazine, Issue #42, April, 2002, pp. 81-91
O34	Robert B. Smalley, "A New Look at Cartridge Internal Ballistics," Precision Shooting, May, 2002, pp. 34-43
O35	M.L. McPherson, "More Dope on the SMC Cartridge Line," The Varmint Hunter Magazine, Issue 44, October, 2002, pp. 78-79

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and selection option 2.

\* Did not receive

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>  Sheet        4                of                4		<b>Complete if Known</b>	
		Application Number	10/757,773
		Filing Date	January 15, 2004
		First Named Inventor	Robert B. Smalley
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	3210.2.4

	O36	M.L. McPherson, "Primers, Powder, & Plume Penetration Part 1, Smokeless," Single Shot Rifle Journal, May-June 2003, pp. 42-56.	
	O37	M. L. McPherson, "Primers, Powder 7 Plume Penetration Part 2, Black Powder," Single Shot Rifle Journal, July-August 2003, pp. 42-56	
	O38	M.L. McPherson, "How Far Does A Primer Plume Penetrate?," The Varmint Hunter Magazine, Issue 49, January, 2004, pp. 101-110.	
	O39	Getting to the Bottom of the Lott, Readers Write, American Rifleman, March, 2004, pp. 8	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and selection option 2.